

## Trimble 4000SSI External Event Marks

### **Purpose:**

External event marks allow the user to place a time marker in the current Trimble 4000SSI data file being logged.

### **How to create a Trimble 4000SSI event mark:**

While the receiver is logging a static or kinematic survey, press

[LOG DATA] [INPUT/CNGS] [USER INPUT] [MARK EVENT NOW!]

The screen will display the current event number which starts at 1.

### **How to extract the Trimble 4000SSI event marks from a survey file:**

- 1) download the Trimble 4000SSI data file (a .DAT file) using a utility like Trimble Data Transfer (<http://www.trimble.com/datatransfer.shtml>), or GPLOAD ([http://www.trimble.com/support\\_trl.asp?Nav=Collection-3613](http://www.trimble.com/support_trl.asp?Nav=Collection-3613))
- 2) Convert the .DAT file to a RINEX obs file using TEQC (<http://facility.unavco.org/software/teqc/teqc.html>)

**Note to Microsoft Windows users:** None of the **teqc.exe** executables available are MS Windows GUIs; they are all command line programs. Clicking on **teqc.exe** will only result in a window popping up for a fraction of a second. You must use a DOS emulation window and run **teqc.exe** on the command line. For example, on MS 2000 and XP, click on **Start** and then **Run**, and in the **Run** window type **cmd** and click on **OK** to bring up a DOS emulation window.

Open a DOS command window,  
**cd** to the directory containing your Trimble 4000SSI .DAT file,  
type **TEQC -tr d dat\_file > rinex\_obs\_file**

for example

```
cd \gps\data
teqc -tr d 63321100.dat > 63321100.07o
```

If the TEQC program isn't found, make sure the file TEQC.EXE is in a directory in the default search path (c:\WINDOWS\system32).

The external event marks appear as RINEX COMMENT entries in the file. Here is an excerpt from the above example file 63321100.07o showing a manual event mark occurring at April 20, 2007 16:04:37.000 GMT.

```
07 4 20 16 4 36.0000000 0 7G 2G 6G 7G10G24G26G29
1373559.37545 1074793.46045 23432693.6484 23432696.4144
5776.4694
1278876.72147 996527.53746 20975804.2664 20975807.8054
8474.3284
1245075.46447 970188.49646 21339557.3284 21339561.2194
9440.8134
1355803.92247 1056470.44846 21582364.2344 21582368.5004
6281.9844
```

1242353.30247	968067.16146	20931368.4454	20931372.6884
9523.7194			
1168076.55946	910189.56246	21721507.1724	21721510.5474
11641.7194			
1218031.44247	949114.93946	21428755.1094	21428758.2154
10212.6254			
07 4 20 16 4 37.0000000	4	1	
Manual Event # 1			COMMENT
07 4 20 16 4 37.0000000	0	7G 2G 6G 7G10G24G26G29	
1367782.86545	1070292.28245	23431594.5474	23431597.3014
5776.6564			
1270402.53747	989924.27646	20974191.8914	20974195.4654
8474.1254			
1235634.78447	962832.12246	21337760.5864	21337764.6294
9440.6414			
1349521.94347	1051575.39846	21581168.9774	21581173.3244
6282.0784			
1232829.58047	960646.07946	20929556.1954	20929560.4964
9523.8284			
1156434.97446	901118.19646	21719292.0554	21719295.4774
11641.5784			
1207818.99547	941157.18846	21426811.5944	21426814.7234
10212.3914			

COMMENT fields are also used for other purposes such as antenna height changes, and manual field note entries